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RAW SEQUENCE LISTING  
PATENT APPLICATION US/09/320,609DATE: 03/03/2000  
TIME: 12:14:37

Input Set: I320609.RAW

This Raw Listing contains the General Information  
Section and up to first 5 pages.

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1 <110> APPLICANT: Wilusz, Jeffrey  
2 Ford, Lance P  
3 <120> TITLE OF INVENTION: SYSTEM FOR REPRODUCING AND MODULATING STABILITY AND  
4 TURNOVER OF RNA MOLECULES  
5 <130> FILE REFERENCE: 601-1-088N  
6 <140> CURRENT APPLICATION NUMBER: US/09/320,609  
7 <141> CURRENT FILING DATE: 1999-05-26  
8 <150> EARLIER APPLICATION NUMBER: US 60/086,675  
9 <151> EARLIER FILING DATE: 1998-05-26  
10 <160> NUMBER OF SEQ ID NOS: 12  
11 <170> SOFTWARE: PatentIn Ver. 2.0  
12 <210> SEQ ID NO 1  
13 <211> LENGTH: 59  
14 <212> TYPE: DNA  
15 <213> ORGANISM: Artificial Sequence  
16 <220> FEATURE:  
17 <223> OTHER INFORMATION: Description of Artificial Sequence: By hybridizing  
18 this synthetic oligonucleotide and its appropriate  
19 complement, template for ARE-A0 RNA were  
20 generated.  
21 <400> SEQUENCE: 1  
22 attaggtga cactatagaa tacacattat ttattattta tttattattt atttattta 59  
23 <210> SEQ ID NO 2  
24 <211> LENGTH: 59  
25 <212> TYPE: DNA  
26 <213> ORGANISM: Artificial Sequence  
27 <220> FEATURE:  
28 <223> OTHER INFORMATION: Description of Artificial Sequence: By hybridizing  
29 this synthetic oligonucleotide and its appropriate  
30 complement, templates for MT-ARE-A0 RNA were  
31 generated.  
32 <400> SEQUENCE: 2  
33 attaggtga cactatagaa tacacgttag tattcatttg tttactattg atttcttta 59  
34 <210> SEQ ID NO 3  
35 <211> LENGTH: 68  
36 <212> TYPE: DNA  
37 <213> ORGANISM: Artificial Sequence  
38 <220> FEATURE:  
39 <223> OTHER INFORMATION: Description of Artificial Sequence: By hybridizing  
40 this synthetic oligonucleotide and its appropriate  
41 complement, templates for Fos-A0 RNA were  
42 generated.  
43 <400> SEQUENCE: 3  
44 attaggtga cactatagaa tacacaaatt ttattgtgtt tttaatttat ttattaagat 60

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45 ggattctc 68  
46 <210> SEQ ID NO 4  
47 <211> LENGTH: 33  
48 <212> TYPE: DNA  
49 <213> ORGANISM: Artificial Sequence  
50 <220> FEATURE:  
51 <223> OTHER INFORMATION: Description for artificial sequence: Templates for  
52 SVARE-A0 RNA were generated by inserting the  
53 TNF-alpha ARE containing this oligonucleotide and  
54 its appropriate complement between the PstI and  
55 Hind  
56 <400> SEQUENCE: 4  
57 attattttt atttatttat tattttattat tta 33  
58 <210> SEQ ID NO 5  
59 <211> LENGTH: 70  
60 <212> TYPE: DNA  
61 <213> ORGANISM: Artificial Sequence  
62 <220> FEATURE:  
63 <223> OTHER INFORMATION: Description of Artificial Sequence: By hybridizing  
64 this synthetic oligonucleotide and its appropriate  
65 complement , templates for CX-A0 RNA were  
66 generated.  
67 <400> SEQUENCE: 5  
68 attaggtga cactatagaa tacacccaa cggggccctcc ctcccccctt tgcaccatca 60  
69 tcgcacatc 70  
70 <210> SEQ ID NO 6  
71 <211> LENGTH: 34  
72 <212> TYPE: RNA  
73 <213> ORGANISM: Artificial Sequence  
74 <220> FEATURE:  
75 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic RNAs  
76 used in competition studies. ARE.  
77 <400> SEQUENCE: 6  
78 auuuuuuuauu auuuuuuuau uauuuauuuua uuuua 34  
79 <210> SEQ ID NO 7  
80 <211> LENGTH: 13  
81 <212> TYPE: RNA  
82 <213> ORGANISM: Artificial Sequence  
83 <220> FEATURE:  
84 <223> OTHER INFORMATION: Description of Artificial Sequence: Synthetic RNA  
85 used in competition studies contains this  
86 sequence. Non-specific competitior.  
87 <400> SEQUENCE: 7  
88 gucacguguc acc 13  
89 <210> SEQ ID NO 8  
90 <211> LENGTH: 23  
91 <212> TYPE: DNA  
92 <213> ORGANISM: Artificial Sequence  
93 <220> FEATURE:  
94 <223> OTHER INFORMATION: Description of Artificial Sequence: This synthetic

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95 oligonucleotide and its appropriate complement  
96 were generated, hybridized, and ligated to Hind III  
97 cut DNA templates.

98 <400> SEQUENCE: 8 23  
99 agctatatgg aggtgctcga ggt

100 <210> SEQ ID NO 9  
101 <211> LENGTH: 24  
102 <212> TYPE: DNA  
103 <213> ORGANISM: Artificial Sequence  
104 <220> FEATURE:  
105 <223> OTHER INFORMATION: Description of Artificial Sequence: SP6 promoter  
106 primer.

107 <400> SEQUENCE: 9 24  
108 catacgattt aggtgacact atag  
109 <210> SEQ ID NO 10  
110 <211> LENGTH: 14  
111 <212> TYPE: DNA  
112 <213> ORGANISM: Artificial Sequence  
113 <220> FEATURE:  
114 <223> OTHER INFORMATION: Description of Artificial Sequence: A specific 3'  
115 end primer for ligated oligonucleotide.

116 <400> SEQUENCE: 10 14  
117 acctcgagca cctc  
118 <210> SEQ ID NO 11  
119 <211> LENGTH: 12  
120 <212> TYPE: DNA  
121 <213> ORGANISM: Artificial Sequence  
122 <220> FEATURE:  
123 <223> OTHER INFORMATION: Description of Artificial Sequence: Antisense  
124 oligonucleotide.

125 <400> SEQUENCE: 11 12  
126 agttaaataaa at  
127 <210> SEQ ID NO 12  
128 <211> LENGTH: 5  
129 <212> TYPE: RNA  
130 <213> ORGANISM: Artificial Sequence  
131 <220> FEATURE:  
132 <223> OTHER INFORMATION: Description of Artificial Sequence: This sequence  
133 often repeats in AREs (A-U rich sequence) found in  
134 the 3' untranslated region of many short-lived  
135 mRNAs.

136 <400> SEQUENCE: 12 5  
137 auuua

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VERIFICATION SUMMARY  
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